6.2.7 Characteristics of New and Stock Generating Capacities, by Plant Type							
	Heatrate (1)				Total Capital Costs		
	in 2009	Size	Overnight Costs (2)	(	of Typical New Plant		
New Plant Type	(Btu/kWh)	(MW)	(2008 \$/kW)	(\$2008 million)			
Scrubbed Coal	9,200	600	2223		1334		
Integrated Coal-Gasification							
Combined Cycle (IGCC)	8,765	550	2569		1413		
IGCC w/Carbon Sequestration	10,781	380	3776		1435		
Conv. Gas/Oil Combined Cycle	7,196	250	984		246		
Adv. Gas/Oil Combined Cycle	6,752	400	968	387			
Conv. Combustion Turbine	10,788	160	685		110		
Adv. Combustion Turbine	9,289	230	948		218		
Fuel Cell	7,930	10	5478	55			
Advanced Nuclear	10,488	1350	3820		5157		
Municipal Solid Waste	13,648	30	2599	78			
Conventional Hydropower (3)	9,884	500	2291		1146		
Wind	9,884	50	1966		98		
Stock Plant Type	<u>2008</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>	
Fossil Fuel Steam Heat Rate (Btu/kWh)	9,893	9,872	9,619	9,653	9,706	9,609	
Nuclear Energy Heat Rate (Btu/kWh)	10,453	10,453	10,453	10,453	10,453	10,453	

Note(s): 1) Plant use of electricity is included in heat rate calculations; however, transmission and distribution losses of the electric grid are excluded.
2) Overnight costs represent the capital costs of new projects initiated in 2009. Includes contingency factors and excludes interest charges. 3)
Hydro costs and performance characteristics are site-specific. This table provides the cost of the least expensive plant that could be built in the Northwest Power Pool region, where most proposed sites are located.

Source(s): EIA, Assumptions to the AEO 2010, Apr. 2010, Table 8.2. p. 91 for 2009 plant characteristics; EIA, Annual Energy Outlook 2008, Mar. 2008, Table A2, p. 117-119, and Table A8, p. 131-132 for estimated stock plant heat rates.